



AIM DATA BASES

CONTINUED

0 SYSTEM SUPPORT FILES

- o HIT FILES FROM SEARCH OF AIM FILES
- o QUEUE FOR USER SEARCH VIRTUAL SEARCHES
- o QUEUES FOR MESSAGES DATA TO AND FROM MVS PROCESSOR

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SAVE FILE STRUCTURE

- 0 ITEM NUMBER OR SANS NUMBER OF DOCUMENTS REFERENCED
- 0 FREE TEXT
- 0 SPECIAL INDICATORS OF KEYWORDS WHEN INPUT BY USERS



## SAVE FILE STRUCTURE

- o ITEM NUMBER OR SANS NUMBER OF DOCUMENT REFERENCED
- o SPECIAL INDICATORS OF KEYWORDS - INPUT BY USERS
- o FREE TEXT

### LOGICAL

DOCUMENT AND  
SYSTEM CATALOG  
INFORMATION

KEYWORDS

USER  
SUPPLIED  
COMMENTS

### PHYSICAL

INQUIRE ITEM  
NUMBER OR  
SANS NUMBER

KEYWORDS

USER  
SUPPLIED  
COMMENTS



## OFFENSIVE SEARCH

- 0 CERTAIN QUERY CAPABILITIES REQUIRE ACCESS OF DOCUMENT IN LIEU OF COMPLETING SEARCH USING INVERSION LISTS
- 0 DOCUMENT DATA BASE IS INVERTED IN INQUIRE
- 0 SEARCH REQUIRES ACCESS SORTED LIST WORDS
- 0 QUERY TERM PROBLEMS CAUSE ACCESS TO DOCUMENT
  - 0 QUERY TERM IS ON STOP LIST OR SATISFIES STOP LIST ALGORITHM ( WORD NOT IN SORTED LIST)
  - 0 QUERY TERM IS FOR IMBEDDED CHARACTER STRING



## TERMINAL VIRTUAL AND MEC

- 0 ALL OF TERMINAL VIRTUAL SOFTWARE
- 0 ALL SPECIAL MEC FUNCTIONS ARE BACKGROUND
- 0 RESULTS OF MEC FUNCTIONS LOADED INTO AIM - USE STANDARD SAFE OUTPUT
- 0 COMMAND FLOW
  - 0 SCREEN MANAGER RECEIVES ALL DATA
  - 0 SAFE COMMAND INTERPRETER
    - AIM COMMAND INTERPRETER
    - SPECIAL REGISTERED COMMANDS (MEC) COMMANDS



SECURITY

- 0 USER AUTHENTICATION VIA VM/CP
- 0 SECURITY AUDIT TO FILE LEVEL
- 0 ISOLATION OF TERMINAL VIRTUAL FROM DIRECT DATA ACCESS
- 0 TWO LEVELS OF FILE CONTROL
  - o USER CONTROLLED FOR PRIVATE FILES
  - o SYSTEM CONTROLLED - CONTROLLED ACCESS DOCUMENTS



USER CONTROLLED

- 0 AIM FILES USE USER CONTROLLED AIM ACCESS CAPABILITIES
- 0 MAIL FILES USE USER CONTROLLED ACCESS LISTS IN AIM  
SYSTEM - CONTROLLED ACCESS DOCUMENTS
  - 0 SEPARATE ACCESS LISTS EACH SUBSET
  - 0 VERIFIED AT SEARCH AND RETRIEVAL OF DOCUMENTS
  - 0 PROFILE CHECKED AT COMPILATION FOR USER AND  
MAIL FILE ACCESS PRIVILEGES



RECOVERY - GENERAL PHILOSOPHY

- 0 USE OF RECOVERY OF EXISTING PRODUCTS WHERE POSSIBLE
- 0 DUAL WRITE OF IMPORTANT DATA FILES (MAP JOURNAL)
- 0 RESTART IN LIEU OF CHECKPOINTING AND RECOVERY TO LAST ACTION
- 0 RECOVERY OF ALL MAINTENANCE ACTIONS BY SYSTEM
- 0 RECOVERY OF SEARCH AND BROWSE NOT GUARANTEED
- 0 DISTRIBUTED RECOVERY INSTEAD OF CENTRALIZED
- 0 DELAYED ACKNOWLEDGMENT





MVS RECOVERY

- 0 MAP JOURNAL AND RESTART
- 0 DAP RECOVERS DOCUMENTS IF INQUIRE IS UNAVAILABLE
- 0 INQUIRE CHECKPOINT DOCUMENT DATA BASE



VM RECOVERY

- 0 TERMINAL VIRTUAL - UCV OR USER DETECT PROBLEM
- 0 USER COMPANION VIRTUAL OR USER SEARCH VIRTUALS GRAND  
CENTRAL VIRTUAL NOTIFIED IT RESTARTS SEARCHES QUEUED  
IN AIM IF NOT AVAILABLE
- 0 GRAND CENTRAL AND AIM ARE SINGLE POINT FAILURES
- 0 AIM IMPORT/EXPORT - MESSAGES QUEUED IN AIM IF  
UNAVAILABLE



#### CONSTRAINTS AND ASSUMPTIONS

- 0 SAFE WILL EVOLVE WHICH MEANS CONSTRAINTS INITIALLY RELIEVED  
LATER
- 0 SAVE FILES IN AIM LIMITED FILE SIZE
  - 0 SINGLE SEC SAVE FILE = MULTIPLE AIM SAVE FILES
  - 0 TRANSPARENT DURING SEARCH OR BROWSE RESULTS OF  
SEARCH
- 0 SEARCH SAVE FILES SIGNIFICANTLY SLOWER THAN SEC DUE TO RANDOM  
ACCESS VERSUS DUPLICATION AND SEQUENTIAL IN SEC
- 0 RELIEVED AT DELIVERY 3



- 0 NO SEARCH CANCELLATION OF DOCUMENT FILE AND FOR ALL OTHERS  
ONLY AFTER SEARCH HAS STARTED
- 0 HIT FILES
  - 0 LIMIT ON NUMBER HIT FILES FROM DOCUMENT FILE  
SEARCH
  - 0 HIT FILES DOCUMENT FILE SEARCH DELETED AT LOG OFF
  - 0 USER OPTION FOR HIT FILES FROM ALL OTHER SEARCHES
  - 0 HAS LOGICAL POINTER TO ITEM IN MAIN FILE
    - IF CHANGED IN MAIN - CHANGED IN HIT FILE
    - IF DELETED IN MAIL STILL IN HIT FILE



## DOCUMENT FILE SEARCH CONSTRAINTS

- 0 STATUS DISPLAY TOTAL NOT UNIQUE NUMBER OCCURRENCES
- 0 PROXIMITY ONLY APPLIES WITHIN MAJOR ZONE ACROSS MINOR ZONES
- 0 USER MAY ONLY HAVE ONE ACTIVE DOCUMENT FILE SEARCH



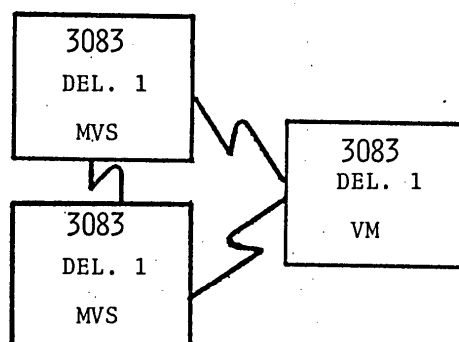
ASSUMPTION

- 0 IF SEARCH IS AGAINST ZONE NOT IN DOCUMENT THAT DOCUMENT  
NOT SEARCHED
- 0 IF DISPLAY ZONE NOT IN DOCUMENT-ZONE IT IS IMBEDDED IN  
WILL BE DISPLAYED ALONG WITH MESSAGE

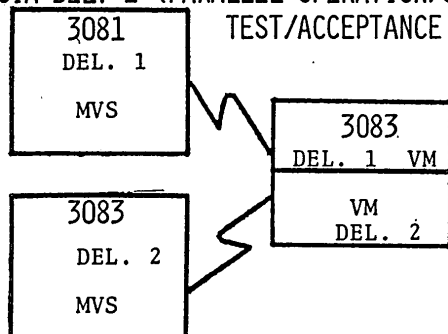


DELIVERY 1 - 2 TRANSITION  
HARDWARE CONFIGURATIONS

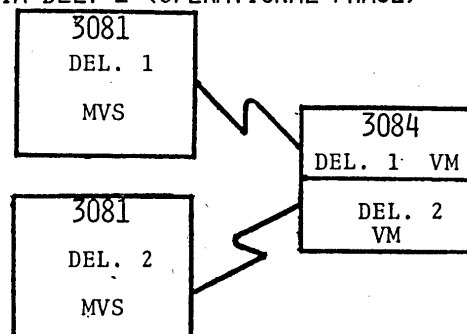
CIA DELIVERY 1



CIA DEL. 2 (PARALLEL OPERATION/SYSTEM  
TEST/ACCEPTANCE TEST)



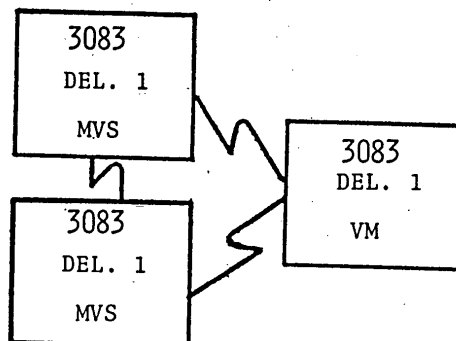
CIA DEL. 2 (OPERATIONAL PHASE)



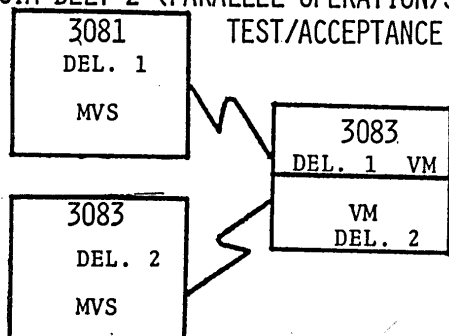


DELIVERY 1 - 2 TRANSITION  
HARDWARE CONFIGURATIONS

CIA DELIVERY 1



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